В

Appl. No. 08/853,007 Amdt. Dated Oct. 23, 2003 Reply to Office action of Jul. 28, 2003

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows.

1. (previously presented) A process for producing alkyl aromatic compounds which comprises contacting benzene with at least one of polyisopropylbenzene or polyethylbenzene under transalkylation reaction conditions and in the presence of a transalkylation catalyst to provide an alkylated aromatic product possessing at least one alkyl group derived from said polyisopropylbenzene or polyethylbenzene, said catalyst comprising a binder-free molecular sieve having an X-ray diffraction pattern that includes the lines set forth in Table A.

2-8 (cancelled)

9. (previously presented) The process of Claim 1, wherein the transalkylation reaction conditions include a temperature of between about 160°C and 270°C, a pressure of about 1 to 70 atmospheres, a total space velocity, WHSV, of from about 1 to 20 and a molar ratio of benzene to polyisopropylbenzene or polyethylbenzene of from about 0.1:1 to 50:1.

10. (cancelled)

(new) A process for producing alkyl aromatic compounds which comprises contacting at least one aromatic compound with at least one transalkylating agent possessing at least one aliphatic group having from 1 to 5 carbon atoms under transalkylation reaction conditions and in the presence of a transalkylation catalyst to provide an alkylated aromatic product possessing at least one alkyl group derived from said transalkylating agent, said catalyst comprising a binder-free molecular sieve having an X-ray diffraction pattern that includes the lines set forth in Table A.

Appl. No. 08/853,007 Amdt. Deted Oct. 23, 2003

Reply to Office action of Jul. 28, 2003

- (new) The process of Claim 11, wherein the binder-free molecular sleve has an 12. X-ray diffraction pattern that includes the lines set forth in Table B.
- (new) The process of Claim 11, wherein binder-free molecular slove has an X-13. ray diffraction pattern that includes the lines set forth in Table C.
- (new) The process of Claim 11, wherein the binder-free molecular sieve has an 14. X-ray diffraction pattern that includes the lines set forth in Table D.
- (new) The process of Claim 11, wherein the transalkylation reaction conditions 15. include a temperature of between about 160°C and 270°C, a pressure of about 1 to 70 atmospheres, a total space velocity, WHSV, of from about I to 20 and a molar ratio of aromatic compound to transalkylating agent of from about 0.1:1 to 50:1.
- (new) A process for preparing short chain alkyl aromatic compounds which 16. comprises contacting at least one aromatic compound with at least one transatkylating agent possessing at least one aliphatic group having from 1 to 5 carbon atoms under transalkylation reaction conditions and in the presence of a transalkylation catalyst to provide an alkylated aromatic product possessing at least one alkyl group derived from said transalkylating agent, said catalyst comprising binder-free MCM-22, MCM-36, MCM-49 or MCM-56, or a binder-free molecular sieve comprising oxides of aluminum, silicon and phosphorus.